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PTO/SB/21 (12-97)
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G-P3762

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/254,900	
	Filing Date	March 12, 1999	
	First Named Inventor	Shlomo Ben-Haim, et al.	
	Group Art Unit	3762	
	Examiner Name	J. Jastrzab	
Total Number of Pages in This Submission	10	Attorney Docket Number	20066-13

ENCLOSURES (check all that apply)		
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	William H. Dippert Cowan, Liebowitz & Latman, P.C.
Signature	<i>William H. Dippert</i>
Date	September 25, 2001

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shlomo Ben-Haim, et al.

Examiner: J. Jastrzab

Serial No.: 09/254,900

Group Art Unit: 3762

Filed: March 12, 1999

For: **CARDIAC OUTPUT ENHANCED PACEMAKER**

September 25, 2001

Box AF

Assistant Commissioner for Patents

Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. § 1.116

S I R:

Please amend the above application as follows:

IN THE CLAIMS:

Cancel Claims 1 to 53 without prejudice and add the following claims:

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1 54. (NEW) Apparatus for heart pacing with cardiac output modification, comprising;

one or more electrodes adapted to apply electrical signals to cardiac muscle

segments;

signal generation circuitry adapted to apply an excitatory electrical pulse to at least one of the electrodes to pace the heart and a non-excitatory stimulation pulse of a magnitude and at a timing at which it is unable to generate a propagating action potential to at least one of the one or more electrodes to modify the cardiac output; and

an electrode which senses cardiac electrical activity and is coupled to the signal generation circuitry,

wherein the circuitry detects a QT interval in the cardiac electrical activity.